

SERVICE DIVISION

Samsung Electronics America Inc.

400 Valley Road, Suite 201, Mount. Arlington, NJ 07856 TEL: 1-800-SAMSUNG (1-800-726-7864) www.samsungusa.com



LTN1785W

TFT-LCD TELEVISION

-Owner's Instructions

Thank You for Choosing Samsung

Thank you for choosing Samsung! Your new Samsung TV represents the latest in television technology. We designed it with easy-to-use on-screen menus and closed captioning capabilities, making it one of the best products in its class. We are proud to offer you a product that will provide convenient, dependable service and enjoyment for years to come.

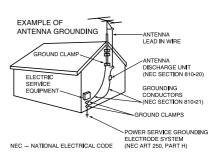
Important Safety Information

- Always be careful when using your TV receiver. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.
- Read all safety and operating instructions before operating your TV.
- Keep the safety and operating instructions for future reference.
- Heed all warnings on the TV receiver and in the operating instructions.
- Follow all operating and use instructions.
- Unplug the TV receiver from the wall outlet before cleaning. Use a damp cloth; do not use liquid or aerosol cleaners.
- Never add any attachments and/or equipment without approval of the manufacturer. Such additions can increase the risk of fire, electric shock, or other personal injury.
- Do not use the TV receiver where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.
- Do not place the TV on an unstable cart, stand, tripod, bracket, or table where it can fall. A falling TV can cause serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the TV. Follow the manufacturer's instructions when mounting the unit, and use a mounting accessory recommended by the manufacturer. Move the TV and cart with care. Quick stops, excessive force, and uneven surfaces can make the unit and cart unsteady and likely to overturn.



- Provide ventilation for the TV receiver. The unit is designed with
 slots in the cabinet for ventilation to protect it from overheating. Do not block these openings
 with any object, and do not place the TV receiver on a bed, sofa, rug, or other similar surface.
 Do not place it near a radiator or heat register. If you place the TV receiver on a rack or
 bookcase, ensure that there is adequate ventilation and that you've followed the
 manufacturer's instructions for mounting.
- Operate your TV receiver only from the type of power source indicated on the marking label.
 If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.
- Use only a grounded or polarized outlet. For your safety, this TV is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still does not fit, contact your electrician to replace your outlet.

- Protect the power cord. Power supply cords should be routed so that they won't be walked on or pinched by objects placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
- Unplug the TV from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time.
 This will prevent damage to the unit due to lightning and power-line surges.
- Avoid overhead power lines. An outside antenna system should not be placed in the vicinity
 of overhead power lines or other electric light or power circuits or where it can fall into such
 power lines or circuits. When installing an outside antenna system, be extremely careful to
 keep from touching the power lines or circuits. Contact with such lines can be fatal.
- Do not overload the wall outlet or extension cords. Overloading can result in fire or electric shock.
- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts. Never spill liquid of any kind on the TV.
- Ground outdoor antennas. If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- Do not attempt to service the TV yourself. Refer all servicing to qualified service personnel. Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - when the power-supply cord or plug is damaged
 - if liquid has been spilled on the unit or if objects have fallen into the unit
 - if the TV has been exposed to rain or water
 - if the TV does not operate normally by following the operating instructions
 - if the TV has been dropped or the cabinet has been damaged
 - when the TV exhibits a distinct change in performance
- If you make adjustments yourself, adjust only those controls that are covered by the
 operating instructions. Adjusting other controls may result in damage and will often require
 extensive work by a qualified technician to restore the TV to normal.
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.
- Upon completion of any service or repairs to this TV, ask the service technician to perform safety checks to determine that the TV is in a safe operating condition.

- Keep all power adapters apart.
 - → Possible fire hazard.
- Keep power adapter away from any other heat source.
 - → Possible fire hazard.
- Remove and discard vinyl bag from power adapter before use.
 - → Possible fire hazard.
- Always keep power adapters in well-ventilated area.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELEC TRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.



Note to CATV system installer: This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Caution: FCC/CSA regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Caution: To prevent electric shock, match the wide blade of plug to the wide slot, and fully insert the plug.

Attention: pour eviter les chocs electriques, introduire la lame le plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws. Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these rights.

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

As an ENERGY STAR Partner.

Samsung Electronics America, Inc. has determined that this product or product model meets the ENERGY STAR guidelines for energy efficiency.

FCC Information

User Instructions

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

The party responsible for product compliance: SAMSUNG ELECTRONICS CO., LTD America QA Lab of Samsung 3351 Michelson Drive, Suite #290, Irvine, CA92612 USA

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product. Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating. For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6015P type (tandem blades) plug cap.

IC Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian nterference-Causing Equipment Regulations of ICES-003.
Cet appareil Numérique de classe B respecte toutes les exigences du Règlemont NMB-03 sur les équipements produisant des interférences au Canada

Notice de Conformité IC

Cet appareil numérique de classe B respecte toutes les exigences du Règlement ICES-003 sur les équipements produisant des interférences au Canada.

VCCI

This is a Class B product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numéique de la classe B estconforme à la norme NMB-003 du Canada.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause unesired operation.

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

Important Warranty Information Regarding Television Format Viewing

Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video. The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving.

Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

Wide screen format televisions (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying any stationary images that exceed the above guidelines can cause uneven aging of picture tubes (LCDs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven LCD aging as a result of format selection and use, as well as other burned-in images, is not covered by your Samsung limited warranty.

[Note]

If a still image is displayed for an extended period of time, residual images or blurring may appear. When you need to leave the monitor unused for an extended period of time, adjust the settings so that the monitor automatically goes into energy saving mode or activates the screen saver to display moving images.

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Chapter One

Your New TV

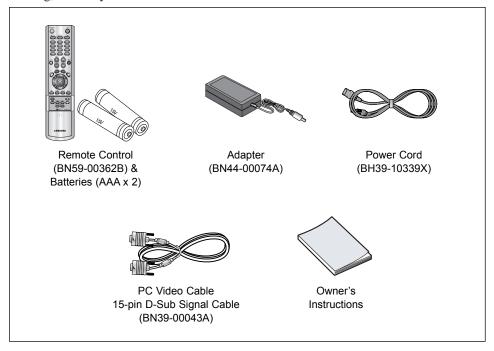
List of Features

Your TV was designed with the latest technology. This TV is a high-performance unit that includes the following special features:

- Easy-to-use remote control
- Easy-to-use on-screen menu system
- Automatic timer to turn the TV on and off
- Adjustable picture and sound settings that can be stored in the TV's memory
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- · Headphone jack for private listening
- 16:9 letter box format available depending upon source

List of Parts

Please make sure the following items are included with your LCD TV. If any items are missing, contact your dealer.

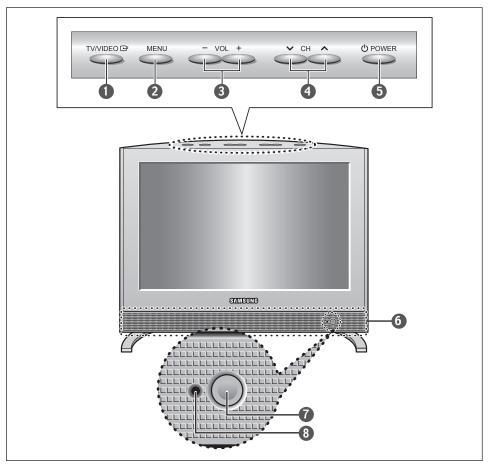


English-1

Familiarizing Yourself with Your New TV

Top Panel Buttons

The buttons on the top panel control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.



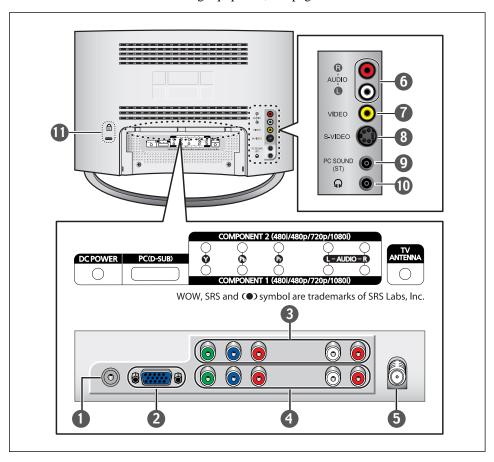
- **1 TV/VIDEO** ☐ (See Page 20) Displays a menu of all of the available input sources (TV, VIDEO, S-VIDEO, Component 1, Component 2, PC).
- 2 MENU Press to see an on-screen menu of your TV's features.
- 3 VOL + Press to increase or decrease the volume.
- Press to change channels. Also press to highlight various items on the on-screen menu.

- **5 OPOWER**Press to turn the TV on and off.
- 6 SPEAKER
- REMOTE CONTROL SENSOR Aim the remote control towards this spot on the TV.
- POWER INDICATOR Lights up when you turn the power off.

Rear Panel Jacks

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player.

For more information on connecting equipment, see pages 7-14.



- **1** POWER INPUT
- **2 PC VIDEO INPUT**Connect to the video output port on your PC.
- **3 COMPONENT 2**Connect a component video/audio.
- 4 COMPONENT 1
 Connect a component video/audio.
- 5 TV ANTENNA
 Connects to an antenna or to a cable
 TV system.
- 6 AUDIO INPUT Connect audio signal(L/R) from a camcorder or VCR.

7 VIDEO INPUT

Connect a video signal from a camcorder or VCR.

- **8 SUPER VIDEO INPUT**Connect an S-Video signal from a camcorder or VCR.
- **9** PC SOUND INPUT
- HEADPHONE JACK Connect a set of external headphones to this jack for private listening.
- (See page 56)

Remote Control

Frequently Used Buttons

You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV.

POWER

Turns the TV on and off. (See Page 15)

2 P.MODE

Adjusts the TV picture by selecting one of the preset factory settings. (See Page 22)

3 ASPECT

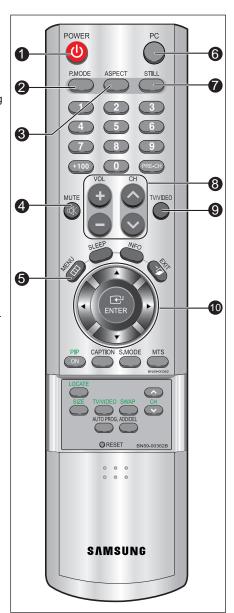
Use to toggle the five screen size options among Wide, Panorama, Zoom 1, Zoom 2 and Normal. (See Page 31)

4 MUTE

Press to temporarily cut off the sound. (See Page 15)

6 MENU

Displays the main on-screen menu.



6 PC MODE

Press to switch to the PC mode.

6 STILL

Press to stop the action during a particular scene. Press again to resume normal video. (See Page 31)

Press CH \wedge or CH \vee to change channels.

VOL + and VOL -

Press to increase or decrease the volume.

9 TV/VIDEO

Press to display all of the available video sources.

1 JOYSTICK

Use to select on-screen menu items and change menu values. (The remote control will only function with VCR or DVD units that are compatible with the LCD TV.)

Convenient Buttons

You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV.

1 +100

Press to select channels over 100. For example, to select channel 121, press "+100", then press "2" and "1". (See Page 19)

Sleep Timer

Press to select a time for the TV to turn off automatically. (See Page 41)

6 PIP

See the PIP screen section of this manual. (See Page 29)

CAPTION (See Page 42)

Press to set caption on/off.

S.MODE

Adjust the TV sound by selecting one of the preset factory settings (or select your personal, customized sound settings). (See Page 24)

MTS

(Multi channel Television Stereo)

Press to choose stereo, mono or Separate Audio Program (SAP broadcast). (See Page 35)

PIP controls (See Page 29) LOCATE

Press to move the PIP window to any of the four corners of the TV screen.

SIZE

Press to make the PIP window double, large or small.

TV/VIDEO

Press to select one of the available signal sources for the PIP window.

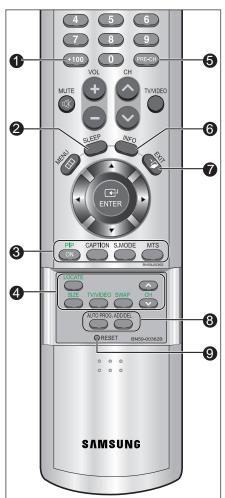
<u>SWAP</u>

Exchanges the video signal that is currently displayed on the main screen with the signal in the PIP window.

<u>^ CH \</u>

Displays the available channels in sequence.

(These buttons change channels in the PIP window only.)



6 PRE-CH

Tunes to the previous channel. (See Page 15)

6 Info Display

Use to see information on the current broadcast. (See Page 16)

6 EXIT

Press to exit the menu.

8 AUTO PROG.

Use to store the broadcast/cable channels that you receive. (See Page 19)

ADD/DEL

Use to store and delete channels to/from memory. (See Page 20)

9 RESET

When your remote does not work, change the batteries and press the RESET button for 2-3 seconds before use.

Installing Batteries in the Remote Control





◆Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.



◆Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

The remote control can be used up to about 23 feet from the TV.

(Assuming typical TV usage, the batteries last for about one year.)

The remote control doesn't work!

Check the following:

- 1. Is the TV power switch on?
- 2. Are the plus and minus ends of the batteries reversed?
- 3. Did the battery run out?
- 4. Is the power out, or is the power cord unplugged?
- 5. Is there a special fluorescent light or a neon sign nearby?

Chapter Two

INSTALLATION

Connecting VHF and UHF Antennas

If your antenna has a set of leads that look like this, see "Antennas with 300-ohm Flat Twin Leads", below.



If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads", on page 8.



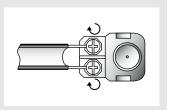
If you have two antennas, see "Separate VHF and UHF Antennas", on page 8.

Antennas with 300-ohm Flat Twin Leads

If you are using an off-air antenna (such as a roof antenna or "rabbit ears") that has 300-ohm twin flat leads, follow the directions below.

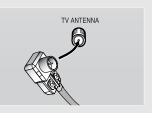
1

Place the wires from the twin leads under the screws on a 300-75 ohm adaptor (not supplied). Use a screwdriver to tighten the screws.



2

Plug the adaptor into the TV ANTENNA terminal on the bottom of the back panel.

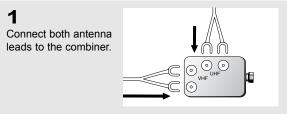


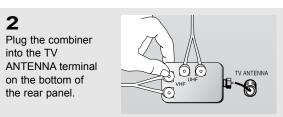
Antennas with 75-ohm Round Leads



Separate VHF and UHF Antennas

If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires a an optional combiner-adaptor (available at most electronics shops).





Connecting Cable TV

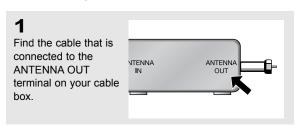
To connect to a cable TV system, follow the instructions below.

Cable without a Cable Box

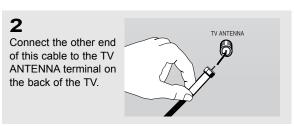


◆Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

Connecting to a Cable Box that Descrambles All Channels

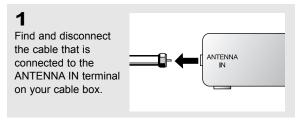


◆This terminal might be labeled "ANT OUT", "VHF OUT", or simply, "OUT".

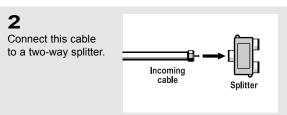


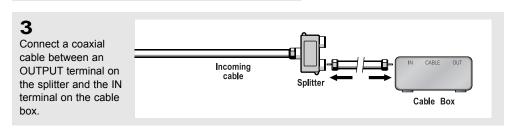
Connecting to a Cable Box that Descrambles Some Channels

If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of coaxial cable. (These items are available at most electronics stores.)

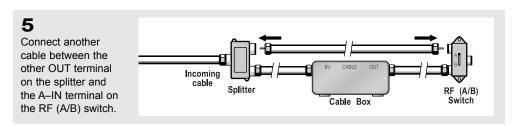


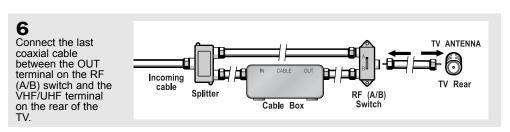
◆This terminal might be labeled "ANT IN", "VHF IN", or simply, "IN".





Connect a coaxial cable between the ANTENNA OUT terminal on the cable box and the B–IN terminal on the A/B switch.



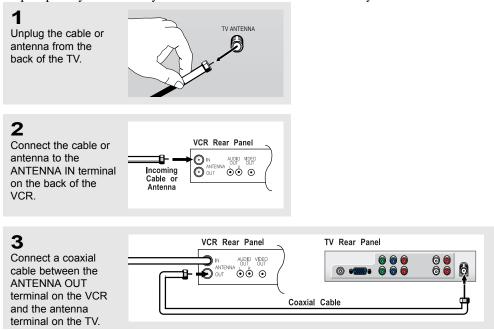


After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B," you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

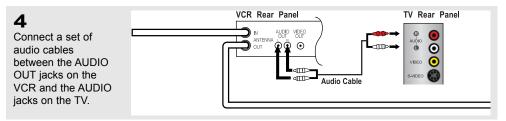
Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 7-9).

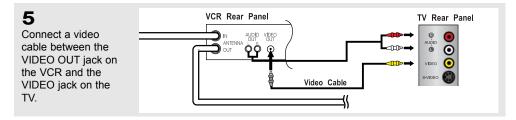
Skip step 1 if you have not yet connected to an antenna or a cable system.



A coaxial cable is usually included with a VCR. (If not, check your local electronics store).



If you have a "mono" (non-stereo) VCR, use the Y-connector (not supplied) to hook up to the left and right audio input jacks of the TV. If your VCR is stereo, you must connect two cables.

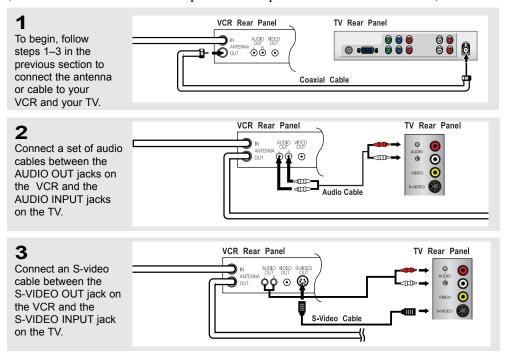


Follow the instructions in "Viewing a VCR or Camcorder Tape" to view your VCR tape.

Each external input source device has a different back panel configuration.

Connecting an S-VHS VCR

Your Samsung TV can be connected to an S-Video signal from an S-VHS VCR. (This connection delivers a better picture as compared to a standard VHS VCR.)



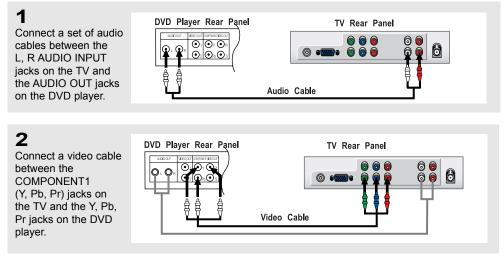
An S-video cable is usually included with an S-VHS VCR.

(If not, check your local electronics store.)

Each external input source device has a different back panel configuration.

Connecting a DVD Player

The rear panel jacks on your TV make it easy to connect a DVD player to your TV.

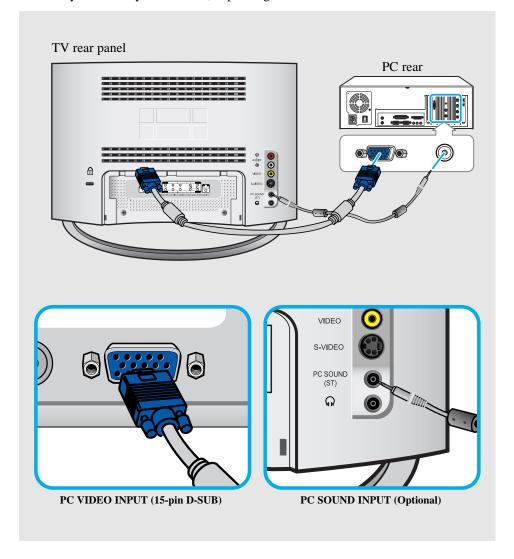


Note: For an explanation of Component video, see your DVD player owner's manual.

Each external input source device has a different back panel configuration.

Connecting a PC

Note: This figure shows the Standard Connector-jack panel. The actual configuration on your TV may be different, depending on the model.



• PC AUDIO INPUT

Connect these to the audio-output jacks on your PC.

• PC VIDEO INPUT

Connect to the video output port on your PC.

Each external input source device has a different back panel configuration.

Chapter Three

SPECIAL FEATURES

Turning the TV On and Off

Press the **POWER** button.

You can also use the Power button on the top panel.

Changing Channels

Using the Channel Buttons

1

Press the **CH** \wedge / \vee buttons to change channels.

When you press the CH ^ / ✓ buttons, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

Using the PRE-CH Button to select the Previous Channel

1

Press the PRE-CH button.

The TV will switch to the last channel viewed.

To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then, use the PRE-CH button to quickly alternate between them.

Adjusting the Volume

1

Press the **VOL +/-** buttons to increase or decrease the volume.

Using Mute

At any time, you can temporarily cut off the sound using the Mute button.

1

Press MUTE and the sound cuts off.

The word "Mute" will appear in the lower-left corner of the screen.

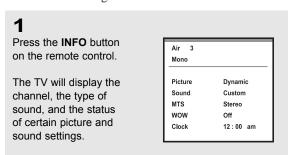
2

To turn mute off, press the ${\bf MUTE}$ button again, or simply press the ${\bf VOL}$ +/- buttons.

SPECIAL FEATURES

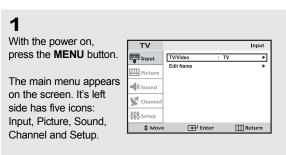
Viewing the Display

The display identifies the current channel and the status of certain audio-video settings.

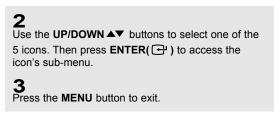


- ◆The on-screen displays disappear after about ten seconds.
- ◆Press the button once more or wait approximately 10 seconds and it disappears automatically.
- ◆ Allows the user to adjust the settings according to his/her preference and shows the current settings.

Viewing the Menus



◆ The on-screen menus disappear from the screen after about thirty seconds.



◆ You can also use the

TV/Video(→) buttons

on the control panel of the TV

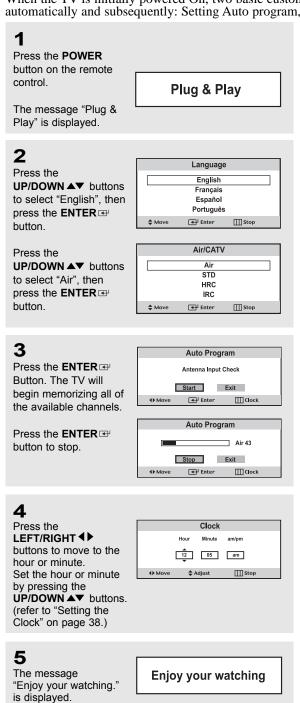
to make selections.

Chapter Four

OPERATION

Plug & Play Feature

When the TV is initially powered On, two basic customer settings proceed automatically and subsequently: Setting Auto program, Clock.



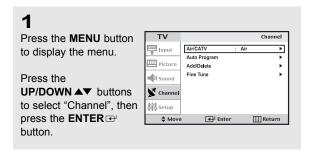
English-17

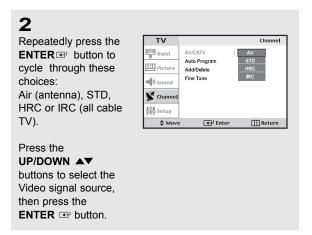
Memorizing the Channels

Your TV can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the CH \land and CH \lor buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

Selecting the Video Signal-source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

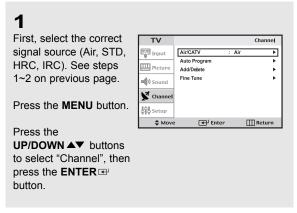




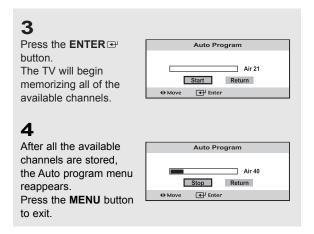
Note: STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.

At this point the signal source has been selected. Proceed to "Storing Channels in Memory" (next page).

Storing Channels in Memory (Automatic Method)







◆ The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes.

Press **ENTER** → at any time to interrupt the memorization process and return to the CHANNEL menu.

To check the channels stored in memory

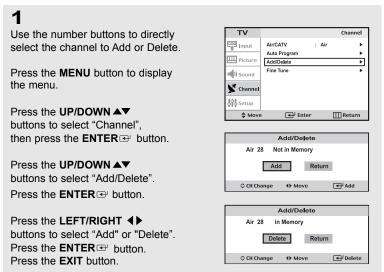
Press the CH ^/∨ button.

• Only the channels stored in memory are selected.

To select channels over 100,

Ex) Press \longrightarrow \longrightarrow \longrightarrow to select channel 108.

ADD and DEL Channels (Manual Method)



2(Alternate method)

Press the ADD/DEL button.

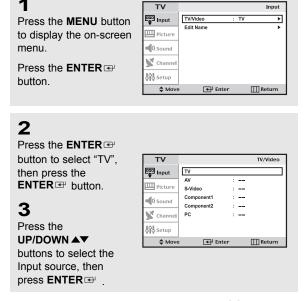
Repeatedly pressing ENTER • will alternate between "Add" and "Delete".

Press the LEFT/RIGHT ◀▶ buttons to select Exit, then press ENTER to exit.

You can view any channel (including an erased channel) by using the number buttons on the remote control.

To Select TV/Input

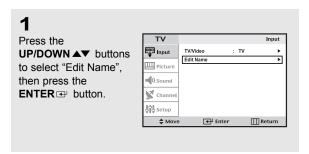
Use to select TV or other external input sources connected to the TV. Use to select the screen of your choice.

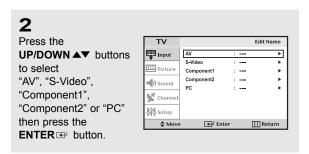


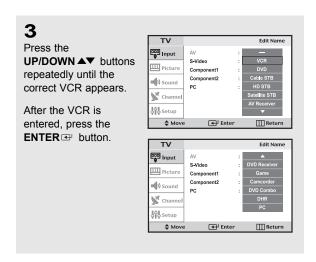
English-20

To Edit the Input Source Name

Name the input device connected to the input jacks to make your input source selection easier.

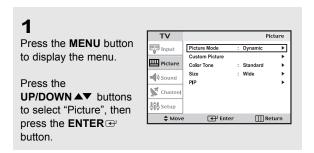


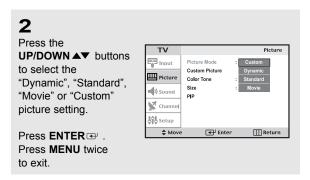




Using Automatic Picture Settings

Your TV has four automatic picture settings ("Custom", "Dynamic", "Standard", and "Movie") that are preset at the factory. You can activate either Dynamic, Standard, or Movie by pressing P.MODE (or by making a selection from the menu). Or, you can select "Custom" which automatically recalls your personalized picture settings.





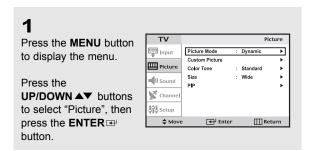
Alternate method:

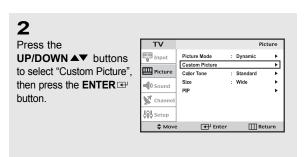
Simply press the **P.MODE** button on the remote control to select one of the standard picture settings.

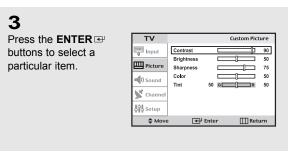
- Choose *Dynamic* to increase the clarity and sharpness of the picture.
- Choose Standard for the standard factory settings.
- Choose *Movie* when viewing the Movie.
- Choose Custom if you want to adjust the settings according to personal preference (see "Customizing the Picture, page 23).

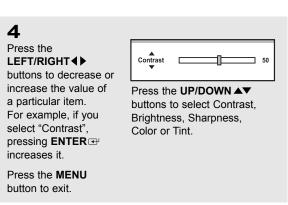
Customizing the Picture

You can use the on-screen menus to change the contrast, brightness, sharpness, color and tint according to personal preference. (Alternatively, you can use one of the "automatic" settings. See previous page.)



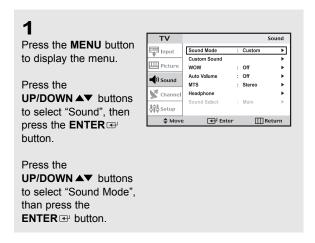


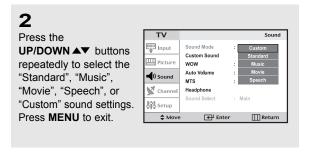




Using Automatic Sound Settings

Your TV has five automatic sound settings ("Custom", "Standard", "Music", "Movie" and "Speech") that are preset at the factory. You can activate any of them by pressing the S.MODE button (or by making a selection from the on-screen menu). Or, you can select "Custom Sound", which automatically recalls your personalized sound settings.





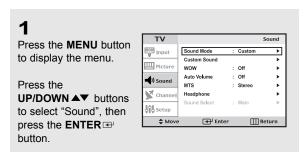
Alternate method:

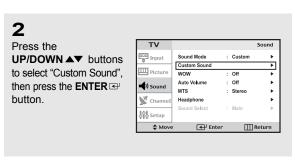
Simply press the the **S.MODE** button on the remote control to select one of the standard sound settings.

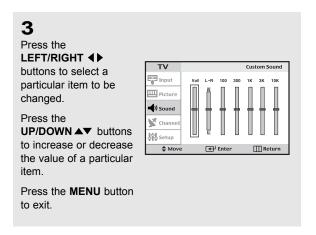
- Choose Standard for the standard factory settings.
- Choose *Music* when watching music videos or concerts.
- Choose Movie when watching movies.
- Choose *Speech* when watching a show that is mostly dialogue (i.e., news).
- Choose *Custom* to recall your personalized settings.

Customizing the Sound

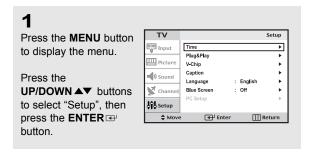
The sound settings can be adjusted to suit your personal preference. (Alternatively, you can use one of the "automatic" settings. See previous page.)

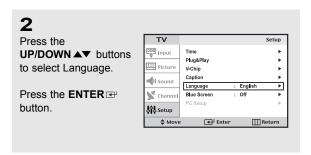


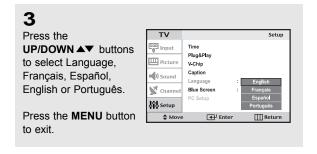




Selecting a Menu Language



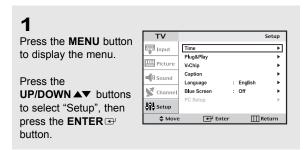


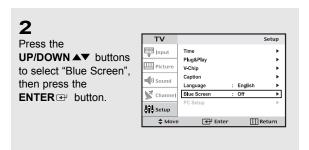


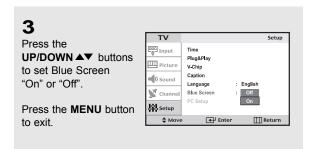
Setting the Blue Screen Mode

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

If you wish to continue viewing the poor picture, you must set the "Blue screen" mode to "Off".



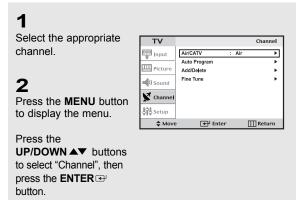


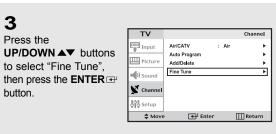


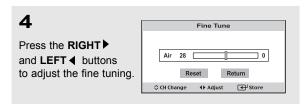
◆Pressing the UP/DOWN ▲ ▼ buttons will alternate between "On" and "Off".

Fine Tuning Channels

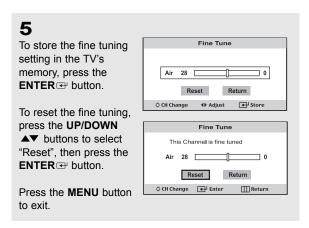
Use fine tuning to manually adjust a particular channel for optimal reception.







◆If you do not store the channel in memory, adjustments to the settings are applied before you change the channel but are not saved. Therefore they return to the original settings once you move to another channel. User-adjusted channels are marked with an asterisk "∗" on the right-hand side of the channel number in the channel banner.



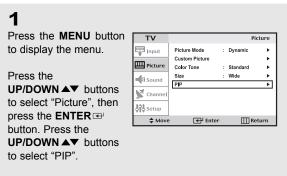
Viewing Picture-in-Picture

This product has one tuner built-in, which does not allow PIP to function in the same mode. Please see 'PIP Settings' below for details.

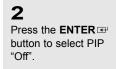
You can use the PIP feature to simultaneously watch two video sources.

Note: While V-Chip is in operation, the PIP function cannot be used.

Activating Picture-in-Picture



 Quick way to access the PIP menu: Simply press the PIP button on the remote control.





¶ If you turn the TV off while watching and turn it on again, the PIP window will disappear.

3

Press the **MENU** button to exit.

Note: Picture-in-Picture does not function when the V-chip is active.

PIP Settings

O : PIP operates X : PIP doesn't operate

Sub Picture Main Picture	TV	AV	S-Video	Component 1	Component 2	PC
TV	х	х	x	0	0	0
AV	х	х	х	0	0	0
S-Video	х	х	х	0	0	0
Component 1	0	0	0	х	х	х
Component 2	0	0	0	х	х	х
PC	0	0	0	х	х	Х

Selecting a Signal Source (External A/V) for PIP

Press the **TV/VIDEO(PIP)** button repeatedly to cycle through all of the available signal sources: "TV", "AV", "S-Video", "Component 1", "Component 2" and "PC".

◆If you select "TV", the PIP image is the same as the main image.

* You can change the PIP Screen according to the Main Source. (See the PIP Settings on page 29.)

Swapping the Contents of the PIP and Main image

When you press the **SWAP** button, the image in the PIP window will appear on the main screen, and vice versa.

Changing the PIP Channel

Press the PIP **CH** \wedge / \vee button to change the channel that appears in the PIP window.

Changing the Location of the PIP Window

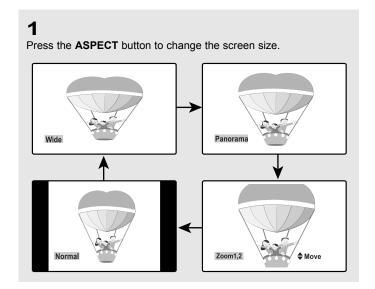
When you press the **LOCATE** button repeatedly, the PIP window moves from corner to corner on the TV screen.

Changing the Size of the PIP Window

Press the **SIZE** button to alternate between a smaller and larger PIP window.

- When the PC is in energy saving mode, you cannot choose the PIP option.
- Press the button once more to deselect PIP mode.
- You may notice that the picture in the PIP window becomes slightly unnatural when you set the main screen to game or karaoke mode.
 Switch the main screen and the PIP window for normal viewing.
- \bullet You can adjust picture position only by using the $\hfill\blacksquare$ size menu.

Changing the Screen Size



- Wide: Sets the picture to 16:9 wide mode.
- Panorama: Use this mode for the wide aspect ratio of a panoramic picture.
- Zoom 1,2: Magnifies the size of the picture on screen.
- Normal: Sets the picture to 4:3 normal mode. This is the standard TV screen size.

Freezing the Picture

1

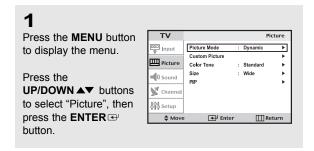
Press the STILL button to freeze a moving picture.

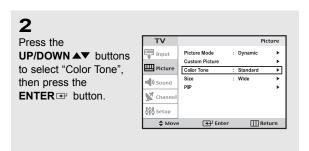
• Normal sound will still be heard.

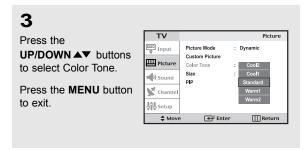
Press again to cancel.

Adjusting the Color Tone

You can change the color of the entire screen according to your preference.



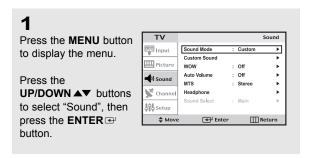


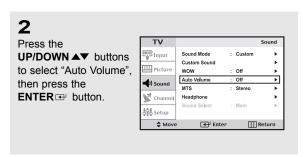


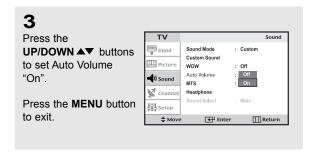
◆You can select "Cool 2", "Cool 1", "Standard", "Warm 1", "Warm 2" color tones according to personal preference.

For automatic volume control

Reduces the differences in volume level among broadcasters.

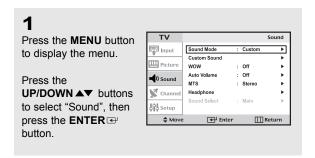


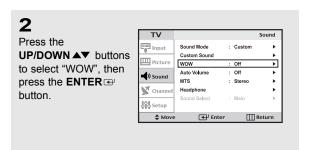


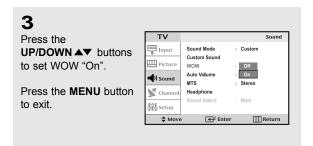


To select the WOW option

Emphasizes mid- and low-range sounds or gives you a surround-sound experience.







TRADEMARK & LABEL LICENSE NOTICE



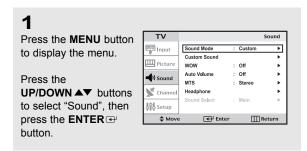
is a trademark of SRS Labs, Inc. WOW technology is incorporated under license from SRS labs, Inc.

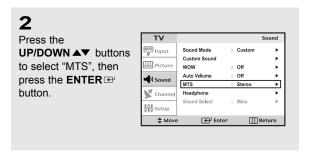
Or WOW, SRS and Symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS labs, Inc.

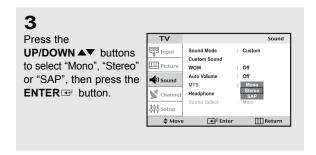
Special Sound Options

Choosing a Multi-Channel Sound (MTS) Soundtrack

Depending on the particular program being broadcast, you can listen to stereo, mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather.)







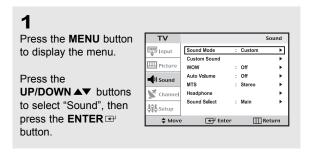
◆Note: The text at the bottom of the menu tells you if the incoming audio is Mono, Stereo or SAP.

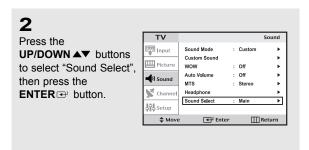
- Choose *Stereo* for channels that are broadcasting in stereo.
- Choose *Mono* for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose *SAP* to listen to the Separate Audio Program, which is usually a foreign-language translation.

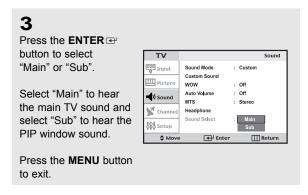
You can also change the MTS setting by pressing the "MTS" button on the remote control. (When you change channels, MTS is set to "Stereo" automatically. To listen in 'SAP' or 'Mono,' change the MTS setting.)

Selecting the Main or Sub Sound

You can select either Main or Sub when PIP is On.



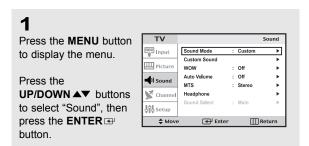




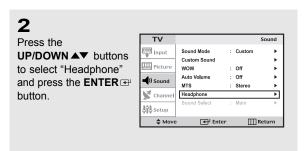
◆Note : Sound Select can also be used to select the Main or Sub sound over the speakers.

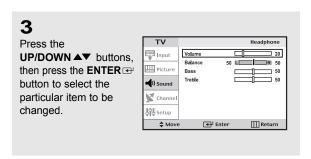
Adjusting the Headphone Sound

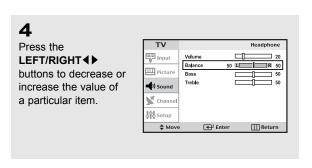
The headphone option is especially useful when simultaneously watching the main screen and the PIP window.



◆Note : Headphones must be purchased separately.

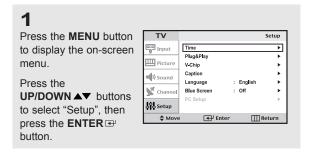


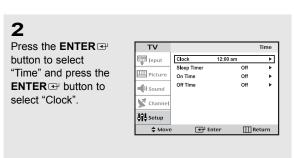


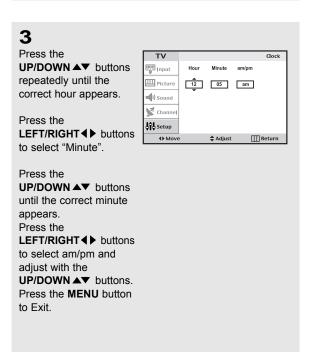


Setting the Clock

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press the INFO button.)

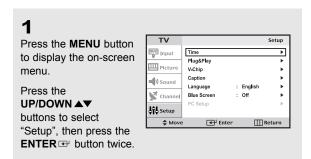






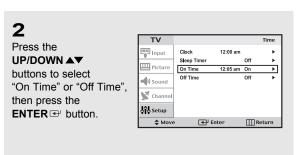
■ Note: You can also set the time using the numeric buttons on the remote.

Setting the On/Off Timer

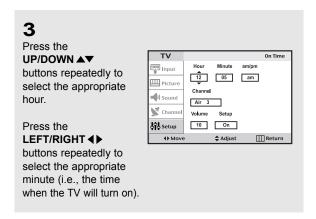


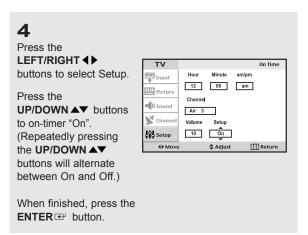
▲ Before using the timer, you must set the TV's clock.

(See "Setting the Clock" on page 38)



▲ When you set the hours, make sure the correct time of day (am or pm) appears to the right of the time.





◆To deactivate the "On time," select "Off" during this step.



To set the Off time, press the **UP/DOWN** ▲▼ buttons to select "Off time".

Press the **ENTER** ¹ button and set the hours and minutes. (Follow the same procedure as in steps 1~4 above.)



6

When finished setting the timer, press the **MENU** button to exit.

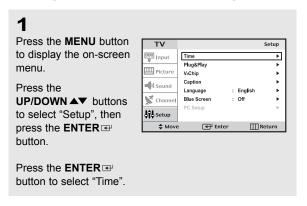
Auto Power Off

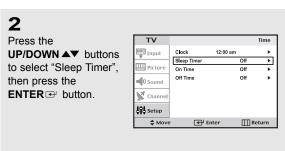
When you set the timer on, your television will be turned off if you do not operate any controls for 3 hours after the TV has been turned on with the 'Timer On' function. 'Auto power off' operates only when the TV has been turned on by the 'Timer on' function.

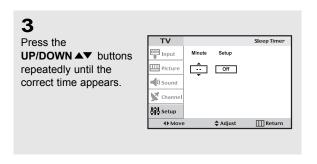
Setting the Sleep Timer

Set the timer for the TV to turn off at the preset time automatically.

Setting the On/Off Timer Using the Menu







• Easy Way to Set the Sleep Timer

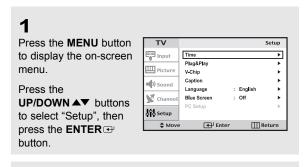
Press the button on the remote.

The number on the screen changes from

Off • 30 • 60 • 90 • 120 • 150 • 180 • Off

Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging: **cc**.



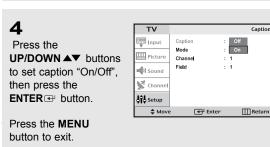
Press the **UP/DOWN** ▲▼ buttons to select "Caption", then press the ENTER **⊕** button.







Caption



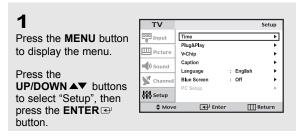
Depending on the particular broadcast, it might be necessary to make changes to "Channel" and "Filed": Press the MENU button to exit the menu.

Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.)

Using the V-Chip

The V-Chip feature automatically locks out programming that is deemed inappropriate for children. The user must first enter a Pin (personal ID number) before any of the V-Chip restrictions can be set up or changed.

Setting Up Your Personal ID Number (PIN)



Press the UP/DOWN ▲▼ buttons to select "V-Chip", then press the ENTER ← button.

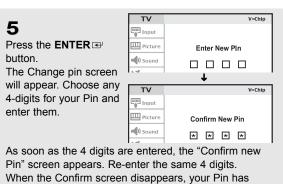


The "Enter Pin" screen will appear. Enter your 4-digit Pin number. Note: The default Pin number for a new TV set is "0-0-0-0."



After entering a valid PIN number, the "V-Chip" screen will appear. Press the UP/DOWN ▲▼ buttons to select "Change Pin."





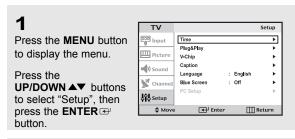
been memorized. Press the MENU button to exit.

English-43

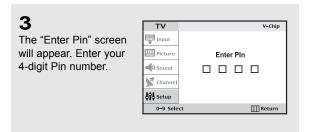
Note: If you forget the Pin,
press the remote-control
buttons in the following
sequence, which resets the pin
to 0-0-0-0:
POWER OFF → MUTE →
8 → 2 → 4 → POWER ON.

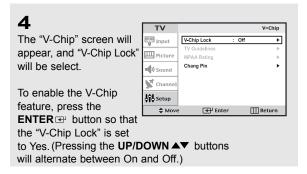
How to Enable/Disable the V-Chip

Note: V-Chip cannot be used during PIP operation.



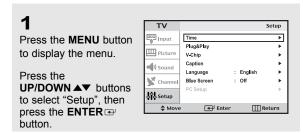






How to Set up Restrictions Using the 'TV guidelines'

First, set up a personal identification number (PIN), and enable the V-Chip. (See previous section.) Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.

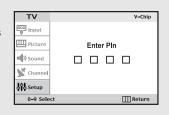


English-44

2

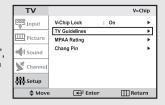
Press the UP/DOWN ▲▼ buttons to select "V-chip", then press the ENTER ← button.

The "Enter pin" screen will appear. Enter your 4-digit PIN number.



3

Press the UP/DOWN ▲▼ buttons to select "TV Guidelines", then press the ENTER ⊕ button.



4

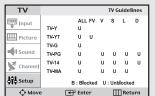
The "TV guidelines" screen will appear.

Press the the UP/DOWN

▼ buttons to select one of the six age-based

categories:
TV-Y Young children
TV-Y7 Children 7 and over

TV-G General audience TV-PG Parental guidance TV-14 Viewers 14 and over TV-MA Mature audience



Note: These categories consist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else).

The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

5

At this point, one of the TV-Ratings is selected.

Press the **ENTER**() button: Depending on your existing setup, the color of the letter "U" or "B" will be highlighted. (U= Unblocked, B= Blocked)

When the color of the "U" or "B" is highlighted, press the **ENTER**() button to block or unblock the category. A TV-Rating will be highlighted.

To exit this screen, press the **MENU** again. To select a different TV-Rating, press the **UP/DOWN** ▲▼ buttons and then repeat the process.

Note 1: The TV-Y7, TV-PG, TV-14 and TV-MA have additional options. See the next step to change any of the following sub-ratings:

FV: Fantasy Violence

- D: Sexual suggestive Dialog
- L: Adult Language
- S: Sexual situation
- V: Violence

Note 2: The V-Chip will automatically block certain categories that are "more restrictive." For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)

6

How to set the FV, D, L, S and V sub-ratings.

First, highlight one of these TV-Ratings: TV-Y7, TV-PG, TV-14 or TV-MA (See Step 4, on previous page).

Next, while the TV-Rating is selected, repeatedly press the **ENTER**(→) button. This will cycle through the available sub-ratings (FV,L, S, D or V).

A highlighted letter ("U" or "B") will be displayed for each sub-rating. While the "U" or "B" is highlighted, press the **ENTER**() buttons to change the sub-rating.

Press **MENU** once to save the TV guidelines. A TV-Rating will be selected, and no letters "U" or "B" will be changed to yellow.

To exit this screen, press the **MENU** button again. To select a different TV-Rating, press the **UP/DOWN** ▲▼ buttons and then repeat the process.

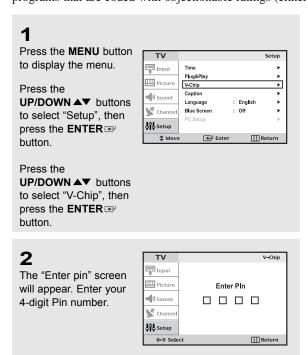
Note: The V-chip will automatically block certain categories that are "More restrictive". For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

7

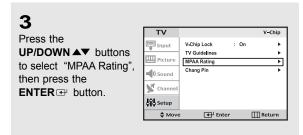
Press the **MENU** button three times to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPAA codes).

How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X

The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. (Eventually, movie videocassettes will be encoded with MPAA ratings.) When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).

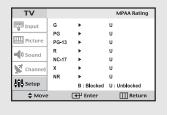


English-46



Repeatedly press the UP/DOWN ▲▼ buttons to select a particular MPAA category. (When a category is selected, its color changes to yellow.) Pressing the UP/DOWN ▲▼ buttons will cycle through the

MPAA categories:



G General audience (no restrictions).
 PG Parental guidance suggested.
 PG-13 PG-13 (Parents strongly cautioned).
 R R (Restricted. Children under 17 should be accompanied by an adult).
 NC-17 No children under age 17.
 X X (Adults only).
 NR Not rated.

Press the UP/DOWN ▲▼ buttons to select a category.

Press the **ENTER**(**■**)buttons to select "U" or "B".

Press the MENU button three times to save the settings and to clear all screens.

Note: The V-Chip will automatically block any category that is "more restrictive". For example, if you block the "PG-13" category, then "R," "NC-17," and "X" will automatically be blocked also.

How to Reset the TV after the V-Chip Blocks a Channel ('Emergency Escape')

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear: "Excessive rating".

To resume normal viewing, tune to a different channel using the number buttons. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels.

In this case, use the Menu button for an "emergency escape":

Select the V-Chip on the Menu. Enter your PIN number, and press the $\textbf{ENTER}(\boxdot)$ button to temporarily disable the V-Chip Lock.

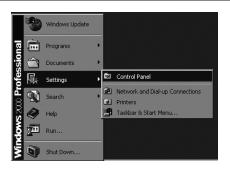
Chapter Five

PC DISPLAY

Using Your TV as a Computer (PC) Display

How to Set up Your PC Software (Windows only)

The Windows display-settings for a typical computer are shown below. However, the actual screens on your PC will probably look different, depending upon your particular version of Windows and your particular video card. Even if your actual screens look different, the same, basic set-up information will apply in most cases. (If not, contact your computer manufacturer or Samsung Dealer.)



First, click on "Settings" on the Windows start menu.

While "Settings" is highlighted, move the cursor so that "Control Panel" is highlighted.

When the control panel screen appears, click on "Display" and a display dialog-box will appear.

Navigate to the "settings" tab on the display dialog-box.





The two key variables that apply the TV-PC interface are "resolution" and "colors." The correct settings for these two variables are:

* Size (sometimes called "resolution"): 1280 x 768 pixels

If a vertical-frequency option exists on your display settings dialog box, the correct value is "60" or "60 Hz". Otherwise, just click "OK" and exit the dialog box.

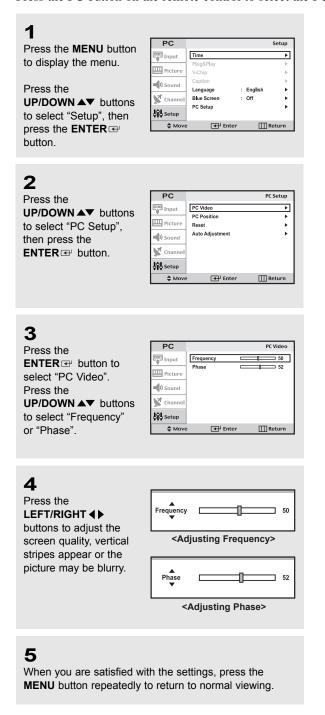
* See "Display Modes" on page 59.

PC DISPLAY

Adjusting the Screen Quality

The purpose of the picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by fine tuning alone, then do the frequency adjustments to the utmost and fine tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

Press the PC button on the remote control to select the PC mode.

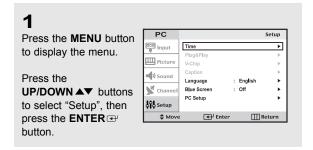


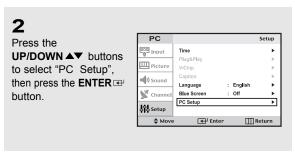
English-49

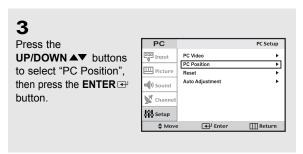
PC DISPLAY

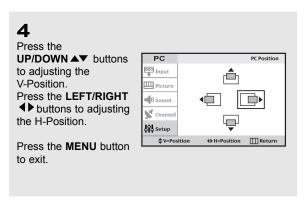
Changing the Screen Position

Press the PC button on the remote control to select the PC mode.





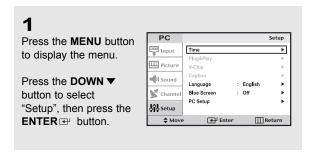


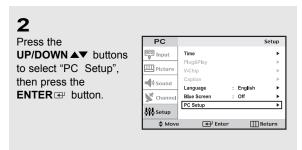


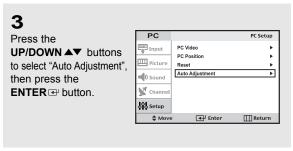
PC DISPLAY

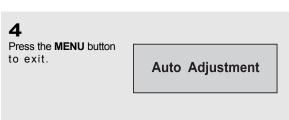
How to Auto Adjust

Use the Auto Adjust function to have the TV set automatically adjust the video signals the monitor receives. The function also automatically fine-tunes the settings and adjusts the frequency values and positions.









Chapter Six

Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, call your nearest Samsung service center.

Identifying Problems

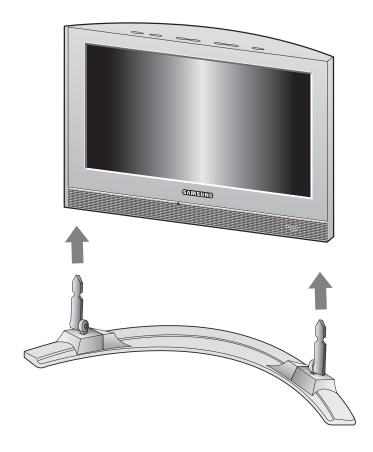
Poor picture Try another channel. Adjust the antenna. Check all wire connections. Poor sound quality. Try another channel. Adjust the antenna. No picture or sound. Try another channel. Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections. No sound or sound is too low at maximum volume. First, check the volume of units connected to your TV (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. Picture rolls vertically. Check all wire connections. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Clean the upper edge of the remote control	Problem	Possible Solution
Check all wire connections. Poor sound quality. Try another channel. Adjust the antenna. No picture or sound. Try another channel. Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections. No sound or sound is too low at maximum volume. First, check the volume of units connected to your TV (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. Picture rolls vertically. Check all wire connections. The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.	Poor picture	Try another channel.
Poor sound quality. Try another channel. Adjust the antenna. No picture or sound. Try another channel. Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections. No sound or sound is too low at maximum volume. (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. Picture rolls vertically. Check all wire connections. The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.		Adjust the antenna.
No picture or sound. Try another channel. Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections. No sound or sound is too low at maximum volume. Picture rolls vertically. Picture rolls vertically. The TV operates erratically. The TV won't turn on. Adjust the antenna. Try another channel. Press the TV/VIDEO button. Make sure the Vis plugged in. Check the volume of units connected to your TV (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Replace the remote control batteries.		Check all wire connections.
No picture or sound. Try another channel. Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections. No sound or sound is too low at maximum volume. First, check the volume of units connected to your TV (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. Picture rolls vertically. Check all wire connections. The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.	Poor sound quality.	Try another channel.
Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections. No sound or sound is too low at maximum volume. First, check the volume of units connected to your TV (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. Picture rolls vertically. Check all wire connections. The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.		Adjust the antenna.
Make sure the TV is plugged in. Check the antenna connections. No sound or sound is too low at maximum volume. Picture rolls vertically. Picture rolls vertically. The TV operates erratically. The TV won't turn on. Remote control malfunctions Make sure the TV is plugged in. Check the volume of units connected to your TV (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. Unplug the TV for 30 seconds, then try operating it again. Replace the wall outlet is working. Replace the remote control batteries.	No picture or sound.	Try another channel.
Check the antenna connections. No sound or sound is too low at maximum volume. First, check the volume of units connected to your TV (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. Picture rolls vertically. Check all wire connections. The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.		Press the TV/VIDEO button.
No sound or sound is too low at maximum volume. First, check the volume of units connected to your TV (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. Picture rolls vertically. Check all wire connections. The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.		Make sure the TV is plugged in.
at maximum volume. (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. Picture rolls vertically. Check all wire connections. The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.		Check the antenna connections.
broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. Picture rolls vertically. Check all wire connections. The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.	No sound or sound is too low	First, check the volume of units connected to your TV
volume accordingly. Picture rolls vertically. Check all wire connections. The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.	at maximum volume.	(digital broadcasting receiver, DTV, DVD, cable
Picture rolls vertically. Check all wire connections. The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.		broadcasting receiver, VCR, etc.). Then, adjust the TV
The TV operates erratically. Unplug the TV for 30 seconds, then try operating it again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.		volume accordingly.
again. The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.	Picture rolls vertically.	Check all wire connections.
The TV won't turn on. Make sure the wall outlet is working. Remote control malfunctions Replace the remote control batteries.	The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it
Remote control malfunctions Replace the remote control batteries.		again.
	The TV won't turn on.	Make sure the wall outlet is working.
Clean the upper edge of the remote control	Remote control malfunctions	Replace the remote control batteries.
		Clean the upper edge of the remote control
(transmission window).		(transmission window).
Check the battery terminals.		Check the battery terminals.
"Check Signal Cable" Ensure that the signal cable is firmly connected to the	"Check Signal Cable"	Ensure that the signal cable is firmly connected to the
message. PC sources.	message.	PC sources.

$T_{\hbox{\scriptsize ROUBLESHOOTING}}$

Problem	Possible Solution			
"Not Supported Mode!"	Check the maximum resolution and the frequency of			
message.	the video Adapter.			
	Compare these values with the data in the Display			
	Modes Timing Chart.			
The image is too light or too	Adjust the Brightness and Contrast.			
dark.	Adjust the Fine function.			
Horizontal bars appear to	Adjust the Coarse function and then adjust the Fine			
flicker, jitter or shimmer on	function.			
the image.				
Vertical bars appear to flicker,	Adjust the Coarse function an	nd then adjust the Fine		
jitter or shimmer on the image.	function.			
Screen is black and power	On your computer check: Power,			
indicator light blinks steadily.	. Signal Cable(15-pin D-Sub)			
	The TV is using its power management system.			
	Move the computer's mouse or press a key on the keyboard.			
Image is not stable and may	If the setting is not correct, use your computer utility			
appear to vibrate.	program to change the display settings.			
	NOTE: Your TV supports multiscan display functions			
	within the following frequency domain:			
	• Horizontal frequency:	30 kHz ~ 68 kHz		
	• Vertical frequency:	56 Hz ~ 85 Hz		
	Maximum refresh rate:	1280 x 768 @ 60 Hz		
Image is not centered on the	Image is not centered on the Adjust the horizontal and vertical position.			
screen.				
If a still image is displayed for	When you need to leave the monitor			
an extended period of time,	unused for an extended period of time, adjust			
residual images or blurring	the settings so that the monitor automatically			
may appear.	goes into energy saving mode or activates the			
	screen saver to display moving images.			



How to assemble the TV set and stand base

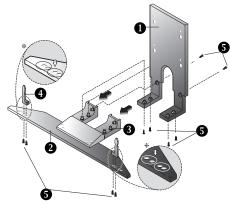


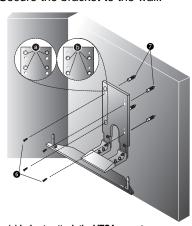
NOTE: The curved side of the stand base should be placed at the back of the TV set as shown in the above figure.

Installing the Wall Mount Kit (sold separately)

This installation is to be used when attaching the wall mount to a concrete wall. When attaching to other building materials, please contact your nearest dealer.

Connect the hinge to the wall mount bracket. Secure the bracket to the wall.





Use (a) holes to attach the VESA mount. Use (b) holes to attach the wall mount.

Remove the base from the TV set.

Screw BH 4 x 25 : 4EA

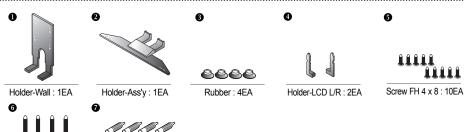


Mount the TV on the wall mount bracket.



Anchor: 4EA

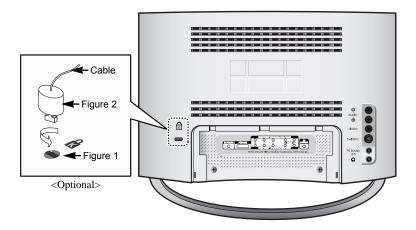




#The wall mount bracket is sold separately.

English-**55**

Using the Anti-Theft Kensington Lock



The Kensington lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.

1

Insert the locking device into the Kensington slot on the LCD TV(Figure 1), and turn it in the locking direction(Figure 2).

2

Connect the Kensington lock cable.

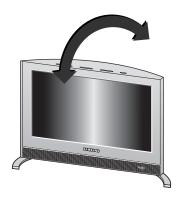
3

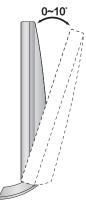
Fix the Kensington lock to a desk or a heavy stationary object.

Retractable Stand

Note: The maximum tilt angle is 10 degrees in the backward direction.

Please do not tilt the TV outside the specified range. Using excessive force to tilt the TV may cause permanent damage to the mechanical part of the stand.





English-56

Cleaning and Maintaining Your TV

With proper care, your TV unit will give you many years of service. Please follow these guidelines to get the maximum performance from your TV.

Placement

- Do not place the TV near extremely hot, cold, humid or dusty places.
- Do not place the TV near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the TV on a soft surface, such as cloth or paper.
- Place the TV in a vertical position only.

Liquids

Do not handle liquids near or on the TV.
 Liquids that spill into it can cause serious damage.

Cahinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

Temperature

 If your TV is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed inside the unit to dry completely.

Using Your TV in Another Country

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.

\mathbf{A} PPENDIX

Specifications

Model Name		LTN1785W		
Panel	Size Display Size Type Pixel Pitch Viewing Angle	17.0 inch Diagonal 370.56(H) X 222.36(V)mm a-si TFT active matrix 0.2895(H) X 0.2895(V)mm 170/170 (H/V)		
*Frequency	Horizontal Vertical Display Color	30 ~ 68 kHz 56 ~ 85 Hz 16,777,216 colors		
Display Resolution	Maximum Mode	1280 X 768 @ 60 Hz		
Input Signal	Sync. Video signal	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75 ohm		
Video	Color system Video system	NTSC CVBS, S-VHS, RGB		
Component	Video In Audio In	1.0 Vp-p @ 75 ohm 500mVrms		
Power Supply	Input Output	AC 100 ~ 240 V (50/60Hz), DC 14V / 4.5A		
Power Consumption	Maximum Power Saving	70 W < 3 W		
Dimensions / Weight	Unit (WxDxH): body With stand	18.26 x 3.45 x 13.60 inch / 9.7 lbs (463.8 x 87.7 x 345.0 mm / 4.4 kg) 18.26 x 7.05 x 14.32 inch / 10.4 lbs (463.8 x 179.0 x 363.7 mm / 4.72 kg)		
Environmental Considerations	Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50 °F to 104 °F (10 °C to 40 °C) 10% to 80% -13 °F to 113 °F (-25 °C to 45 °C) 5% to 95%		
Audio Characteristics	Audio Input 1 Audio Input 2 Headphone out Frequency Response	RCA Jack Red(R) White(L), 0.5Vrms (-9dB) 3.5ø Stereo Jack, 0.5Vrms (-9dB) Max. 10mW Output (3.5ø Stereo Jack 32) RF: 80Hz ~ 15KHz (at- 3dB) A/V: 80Hz ~ 20KHz (at - 3dB)		

^{*} Referring to Display Modes, page 59.

Display Modes

If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal the standard signal mode, adjust the mode by referring to your Videocard user guide; otherwise there may be no video. For the display modes listed below, the screen image has been optimized during manufacture.

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
Macintosh	640 X 480	35.000	66.667	30.240	- / -
	832 X 624	49.726	74.551	49.500	+/+
IBM	640 X 480	31.496	59.940	25.175	- / -
	720 X 400	31.469	70.087	28.322	- / -
VESA	640 X 480	37.861	72.809	31.500	-/-
	640 X 480	37.500	75.000	31.500	-/-
	640 X 480	43.269	85.008	36.000	-/-
	800 X 600	35.156	56.250	36.000	+ / -
	800 X 600	37.879	60.317	40.000	+ / +
	800 X 600	48.077	72.188	50.000	+ / +
	800 X 600	46.875	75.000	49.500	+ / +
	800 X 600	53.674	85.061	56.250	-/-
	1024 X 768	48.363	60.004	65.000	-/-
	1024 X 768	56.476	70.069	75.000	- / -
	1024 X 768	60.023	75.029	78.750	+ / +
	1024 X 768	68.677	84.997	94.500	+ / +
GTF	1280 X 768	47.700	60.000	80.136	-/+